

TEST REPORT					
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE				
Project	Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06				
Consultants	M/s Infra Technocrats Consultants				
Contractor	Shri.K.S.Chowdareddy				
SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE (IS-2386-PART-3)					
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	Rough plastering		
Location/Source	At Site/Plant	Date of Sampling	09.06.2020		
Period of Soaking	24 hours	Date of Testing	09.06.2020		
Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	675	669	650	
B	Weight of oven - dry sample gm.	673	660	644	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1701	1694	1683	
E	Bulk specific gravity $\frac{B}{(C + A - D)}$	2.703	2.640	2.661	2.668
G	Absorption (%) $\frac{(A - B) * 100}{B}$	0.297	1.364	0.932	0.864
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TEST REPORT					
Clients		Bruhat Bangalore Mahanagara Palike			
Project		Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06			
Consultants		M/s Infra Technocrats Consultants			
Contractor		Shri.K.S.Chowdareddy			
SIEVE ANALYSIS					
Total Weight:	3000 gms				
Type of Material	Fine aggregate (River Sand/ M sand)		Proposed Use	Rough plastering	
Sample Location	At Site/Plant		Date of Sampling	09.06.2020	
			Date of Testing	09.06.2020	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100 ✓
4.75 mm	206	206	6.87	93.13	90 - 100 ✓
2.36 mm	309	515	17.17	82.83	75 - 100 ✓
1.18 mm	416	931	31.03	68.97	55 - 90 ✓
0.600 mm	488	1419	47.30	52.70	35 - 59 ✓
0.300 mm	759	2178	72.60	27.40	8-30 ✓
0.150 mm	641	2819	93.97	6.03	0 - 10 ✓
Pan	181	3000			-
Remarks : Satisfactory / Not Satisfactory					
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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06
Consultants	M/s Infra Technocrats Consultants
Contractor	Shri.K.S.Chowdareddy
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			Proposed Use	PCC
Sample Location	At Site/Plant			Date of Sampling	09.06.2020
				Date of Testing	09.06.2020
IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007)
					% of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100 ✓
63.00mm	0	0	0.00	100.00	-
40.00mm	83	83	2.77	97.23	95-100 ✓
20.00mm	1413	1496	49.87	50.13	30-70 ✓
10.00mm	985	2481	82.70	17.30	10-35 ✓
4.75mm	473	2954	98.47	1.53	0-5 ✓
Pan	36	3000	100.00	0.00	

Remarks : Satisfactory ✓

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Test Report on Cement

Project	Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Infra Technocrats Consultants
Contractor	Shri K.S. Chowdareddy
Sample ID	Cement
Date of Sample Tested	24.06.2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	341Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	26.30%	25 % to 35

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Job No.: CQCE/BBMP/KSCR/W.No.06/2020-21

28.05.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.
Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.
Contractor : Sri. K S Chowda Reddy, Contractor, Bangalore.
Name of the work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.05.2020	28.05.2020	8.168	356.3	15.84
2	21.05.2020	28.05.2020	8.184	338.5	15.04
3	21.05.2020	28.05.2020	8.152	352.6	15.67

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Job No.: CQCE/BBMP/KSCR/W.No.06/2020-21

18.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.
Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.
Contractor : Sri. K S Chowda Reddy, Contractor, Bangalore.
Name of the work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.05.2020	18.06.2020	8.284	505.2	22.45
2	21.05.2020	18.06.2020	8.266	519.6	23.09
3	21.05.2020	18.06.2020	8.240	532.6	23.67

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13.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.
Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.
Contractor : Sri. K S Chowda Reddy, Contractor, Bangalore.
Name of the work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	06.06.2020	13.06.2020	8.184	345.6	15.36
2	06.06.2020	13.06.2020	8.166	352.6	15.67
3	06.06.2020	13.06.2020	8.191	366.9	16.31

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Job No.: CQCE/BBMP/KSCR/W.No.06/2020-21

04.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.
Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.
Contractor : Sri. K S Chowda Reddy, Contractor, Bangalore.
Name of the work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	06.06.2020	04.07.2020	8.284	500.9	22.26
2	06.06.2020	04.07.2020	8.265	486.6	21.63
3	06.06.2020	04.07.2020	8.218	495.8	22.04

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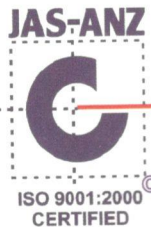


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Job No.: CQCE/BBMP/KSCR/W.No.06/2020-21

08.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.

Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.

Contractor : Sri. K S Chowda Reddy, Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	01.06.2020	08.06.2020	8.184	339.6	15.09
2	01.06.2020	08.06.2020	8.169	365.2	16.23
3	01.06.2020	08.06.2020	8.154	346.8	15.41

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29.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.
Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.
Contractor : Sri. K S Chowda Reddy, Contractor, Bangalore.
Name of the work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	01.06.2020	29.06.2020	8.298	515.2	22.90
2	01.06.2020	29.06.2020	8.256	526.3	23.39
3	01.06.2020	29.06.2020	8.228	535.8	23.81

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Job No.: CQCE/BBMP/KSCR/W.No.06/2020-21

03.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.

Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.

Contractor : Sri. K S Chowda Reddy, Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.05.2020	03.06.2020	8.166	365.2	16.23
2	27.05.2020	03.06.2020	8.199	349.6	15.54
3	27.05.2020	03.06.2020	8.154	352.6	15.67

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Job No.: CQCE/BBMP/KSCR/W.No.06/2020-21

24.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.
Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.
Contractor : Sri. K S Chowda Reddy, Contractor, Bangalore.
Name of the work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.05.2020	24.06.2020	8.262	516.6	22.96
2	27.05.2020	24.06.2020	8.246	498.6	22.16
3	27.05.2020	24.06.2020	8.252	525.1	23.34

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Job No.: CQCE/BBMP/KSCR/W.No.06/2020-21

Date: 20.06.2020

KERB STONE (CORE) TEST REPORT

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.

Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.

Agency : Sri. K S Chowda Reddy, Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.

No. of Sample Tested : 03

Date of Testing : 20.06.2020

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M₁₅

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	73.00	0.336	2344.16	1.46	0.960	24.90	12.68	13.70	13.15	16.44
2	50.00	75.00	0.349	2369.92	1.50	0.960	25.60	13.04	14.08	13.52	16.90
3	50.00	77.00	0.362	2394.35	1.54	0.960	26.80	13.65	14.74	14.15	17.69

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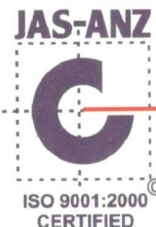


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Job No.: CQCE/BBMP/KSCR/W.No.06/2020-21

Date: 06.06.2020

KERB STONE (CORE) TEST REPORT

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.
Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.
Agency : Sri. K S Chowda Reddy, Contractor, Bangalore.
Name of Work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.
No. of Sample Tested : 03
Date of Testing : 06.06.2020
Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M₁₅

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	71.00	0.325	2331.28	1.42	0.960	24.90	12.68	13.70	13.15	16.44
2	50.00	75.00	0.348	2363.13	1.50	0.960	25.60	13.04	14.08	13.52	16.90
3	50.00	76.00	0.355	2378.95	1.52	0.960	26.30	13.39	14.47	13.89	17.36

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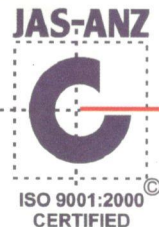


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Job No.: CQCE/BBMP/KSCR/W.No.06/2020-21

Date: 20.06.2020

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.

Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.

Contractor : Sri. K S Chowda Reddy, Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.

No. of Sample Tested : 03

Date of Testing : 20.06.2020

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M₂₀

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	83.00	0.382	2343.99	1.66	0.960	33.50	17.06	18.43	17.69	22.11
2	50.00	84.00	0.391	2370.65	1.68	0.960	32.90	16.76	18.10	17.37	21.72
3	50.00	85.00	0.400	2396.69	1.70	0.960	34.20	17.42	18.81	18.06	22.57

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30 days from the date of testing.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory



CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001: 2015 Certified Company

NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory



Job No.: CQCE/BBMP/KSCR/W.No.06/2020-21

Date: 06.06.2020

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : Executive Engineer, Projects Yelahanka Division, BBMP, Bangalore.

Consultants : M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi), Bangalore.

Contractor : Sri. K S Chowda Reddy, Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.

No.of Sample Tested : 03

Date of Testing : 06.06.2020

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M₂₀

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	82.00	0.381	2366.36	1.64	0.960	33.50	17.06	18.43	17.69	22.11
2	50.00	86.00	0.405	2398.43	1.72	0.960	34.80	17.72	19.14	18.38	22.97
3	50.00	85.00	0.396	2372.72	1.70	0.960	36.20	18.44	19.91	19.11	23.89

Note:

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Authorised Signatory